

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/13578

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl' F02D13/02, F01L1/34, F01L9/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl' F02D13/02, F01L1/34, F01L9/00-9/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Kokai Jitsuyo Shinan Koho	1971-2004	Toroku Jitsuyo Shinan Koho	1994-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2002-161763 A (Unisia Jecs Corp.), 07 June, 2002 (07.06.02), Full text; all drawings (Family: none)	37-39, 49-51
Y	JP 2001-234765 A (Honda Motor Co., Ltd.), 31 August, 2001 (31.08.01), Full text; all drawings (Family: none)	40-48
X	EP 0859130 A1 (TOYOTA JIDOSHA KABUSHIKI KAISHA), 19 August, 1998 (19.08.98), Full text; all drawings & US 5924395 A1	53-57, 59-66
A	& JP 10-227236 A	58, 67

 Further documents are listed in the continuation of Box C. See patent family annex.

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Date of the actual completion of the international search
26 January, 2004 (26.01.04)Date of mailing of the international search report
10 February, 2004 (10.02.04)Name and mailing address of the ISA/
Japanese Patent Office

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2001-207879 A (Nissan Motor Co., Ltd.), 03 August, 2001 (03.08.01), Full text; all drawings (Family: none)	69,70
A	JP 2001-248410 A (Kosuke OSAYA), 14 September, 2001 (14.09.01), Full text; all drawings (Family: none)	1-36, 52, 58
A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 071843/1985(Laid-open No. 186708/1986) (Mitsubishi Motors Corp.), 21 November, 1986 (21.11.86), Full text; all drawings (Family: none)	1-36, 52, 58
A	US 5417187 A1 (Meyer et al.), 23 May, 1995 (23.05.95), Full text; all drawings & DE 4408425 A1 & JP 07-054620 A	26-36